

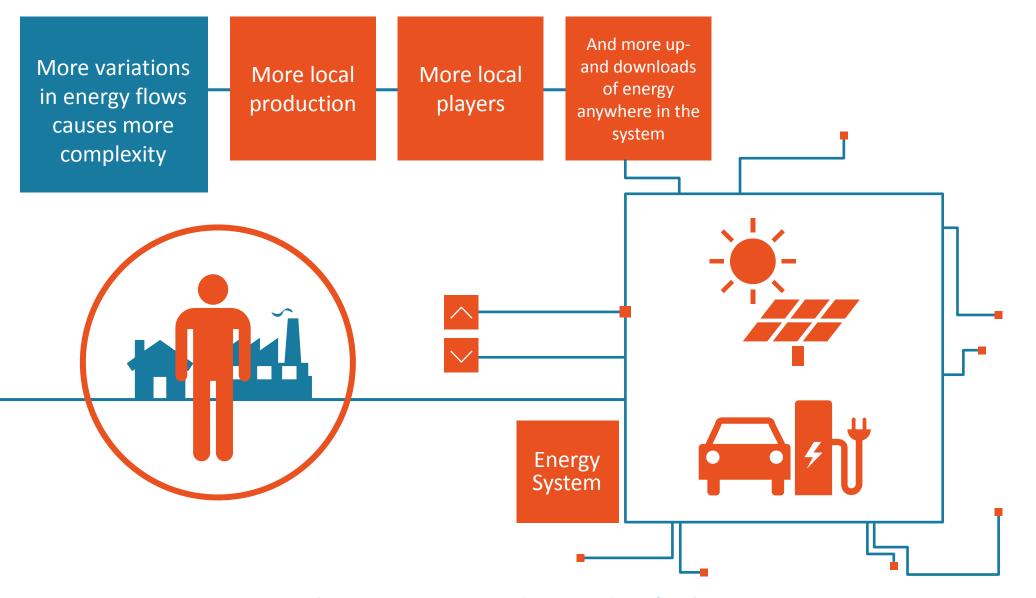
Universal Smart Energy Framework

How working along a new common standard enhances value creation

A solid foundation for smart energy futures

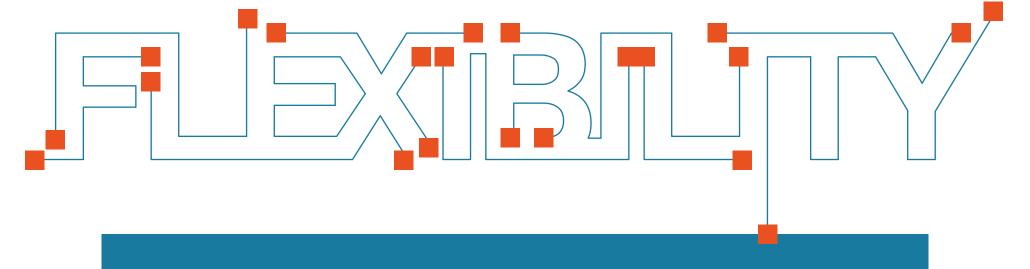






Yet our current market system is not designed to facilitate more interaction





To make the energy market truly sustainable – green, reliable and affordable- our system needs more flexibility.

We already utilize energy flexibility on a wholesale level, to avoid imbalance and transmission congestion. Yet we need the flexibility of prosumers to keep overall system costs low.



USEF is an extended market model revolving around localised flexible energy use. It fits on top of most market models and enables the active market participation of all players, new and traditional.

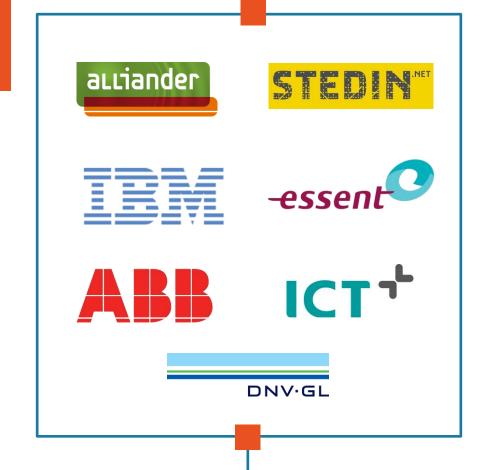


Addressing the challenges of one integrated system



FOUNDING PARTNERS:

USEF, a non-commercial partnership, was founded in 2013 to design a scalable solution that recognizes the different stakeholders and their role in a coherent and commercially viable smart energy system and to accelerate its development.





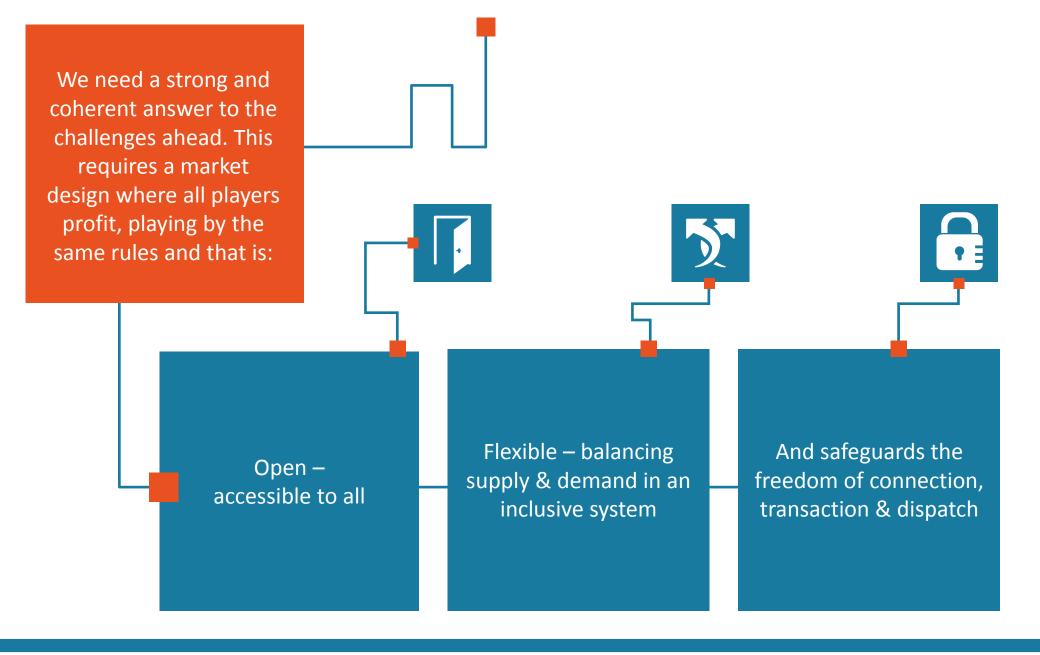
We believe that opening up an integral market for flexibility enables smarter solutions for energy exchange to the benefit of all in the system.

Plus, we believe that in order to create such a market, we need to work together, along one common standard, joining forces across roles and boundaries.







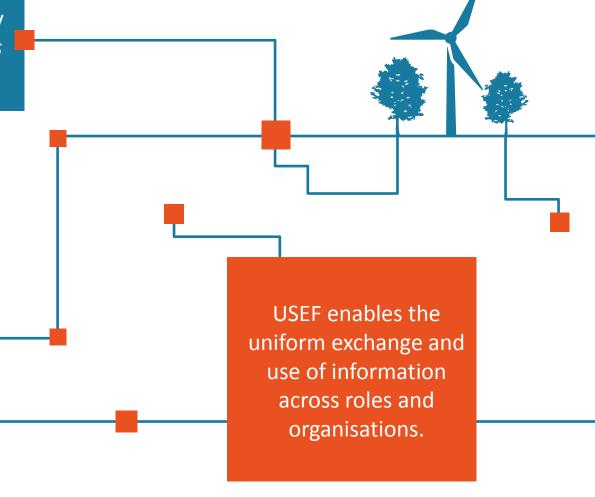




Traditionally the supplier has a one-way relationship with the consumer. "This is what you have used. Here's the bill."

For a more sustainable system,
USEF recognizes the importance
of bi-directional relationships and
enables the interaction between
the prosumer and the traditional
energy players when it comes to
energy flexibility.

By clustering the available flexibility and offering this to the market, the aggregator (intermediary) alleviates pain for all parties involved.





USEF is a framework, with roles, responsibilities and agreements. And with very clear processes for effective interaction. The key process of contracting, planning, validation, operation & settlement are comparable to the existing BRP wholesale process. But we also add usage prognoses for the individual consumers.



USEF describes the interaction in a market with three variables:



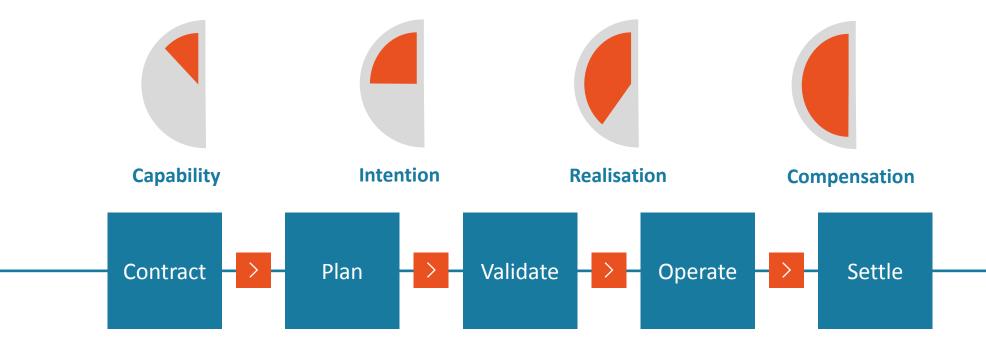






Flexibility





The flexibility market revolves around four basic steps, as part of the known processes:

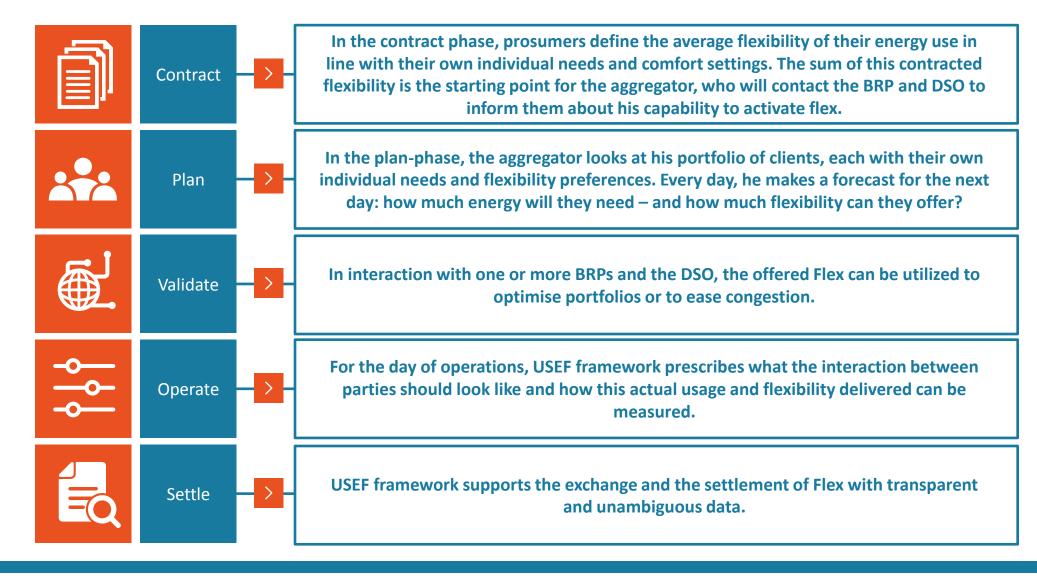
Capability: When and how stakeholders are informed about the capability to activate

Intention: When and how stakeholders are informed about the intention to activate

Realization: When and how stakeholders are informed about the realisation of the activation (based on measurements)

Compensation: When and how stakeholders are compensated (through settlement)

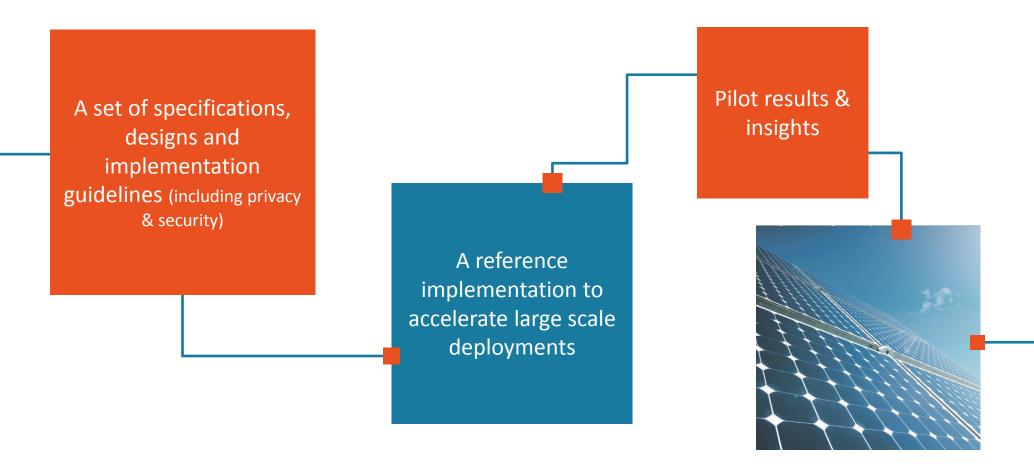




The end result? More sustainable, more effective and thus more profitable use of the energy infrastructure.

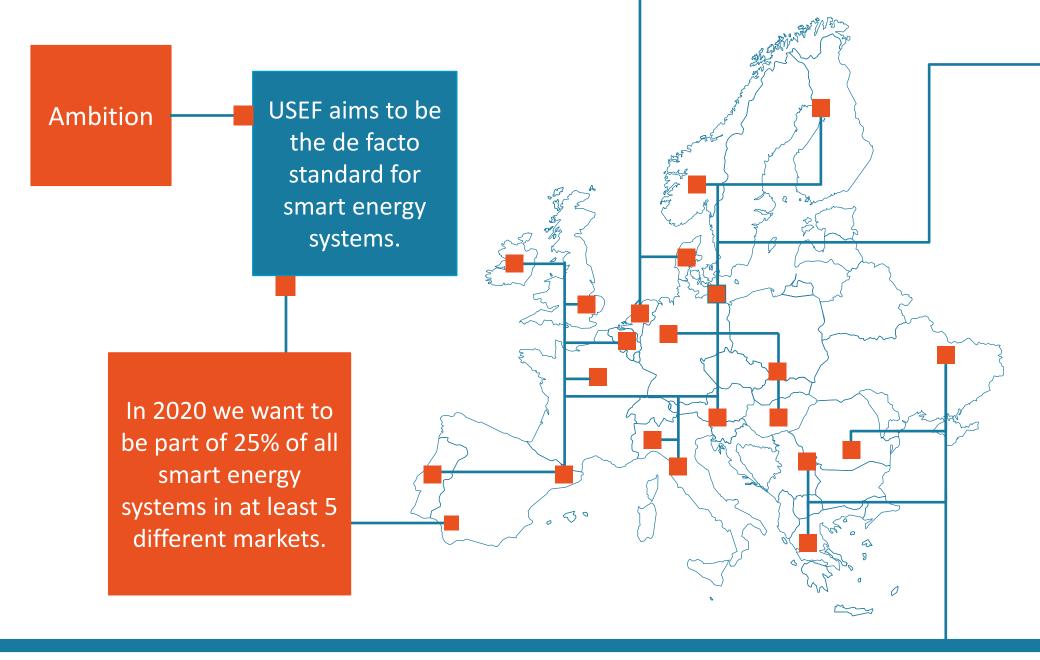


USEF describes the market for flexibility and provides free access to



USEF market control mechanism creates the commercial conditions for large scale implementations, enhancing value creation.

















Join us

www.usef.energy

Name: Jeroen Bode

Tel: +31 6 53576545

Email: jbode@usef.info

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